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What Is Claimed Is:

- 1. A DNA construct, which comprises a DNA molecule of Seq. ID No. 1 or a DNA molecule which is at least 40% homologous thereto, or a fragment thereof, wherein said DNA molecule is under control of a heterologous neuro-specific promoter.
 - 2. The DNA construct of claim 1, which is contained within a vector.
 - 3. The DNA construct of claim 1, which is contained by a viron.
- 4. The DNA construct of claim 1, wherein said DNA molecule has Seq. ID No. 1.
 - 5. A host cell transformed with the DNA construct of claim 1.
 - 6. The host cell line of claim 5, which is a neuronal cell.
- 7. A transgenic non-human animal, all of whose germ and somatic cells comprises the DNA molecule of Seq. ID No. 1 or a DNA molecule which is at least 40% homologous thereto.
- 8. The transgenic non-human animal of claim 7, wherein the DNA molecule contained in each germ and somatic cell has Seq. ID No. 1.
- 9. The transgenic non-human animal of claim 7, wherein the protein coded for by said DNA molecule is overexpressed in the brain of the animal.
- 10. An *in vitro* method for screening a candidate drug that is potentially useful for the treatment or prevention of Alzheimer's disease,

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neuroectodermal tumors, malignant astrocytomas, and glioblastomas, which comprises

- (a) contacting a candidate drug with the host cell line of claim 5, and
- (b) detecting at least one of the following:
 - (i) the suppression or prevention of expression of the protein coded for by the DNA construct;
 - (ii) the increased degradation of the protein coded for by the DNA construct; or
- (iii) the reduction of frequency of at least one of neuritic sprouting, nerve cell death, degenerating neurons, neurofibrillary tangles, or irregular swollen neurites and axons in the host; due to the drug candidate compared to a control cell line which has not contacted the candidate drug.
- 11. The method of claim 10, wherein said protein has Seq. ID No. 2.
- 12. The method of claim 10, wherein said protein is over-expressed by said host cell.
 - 13. The method of claim 10, wherein said cell is a neuronal cell.
- 14. An *in vivo* method for screening a candidate drug that is potentially useful for the treatment or prevention of Alzheimer's disease, neuroectodermal tumors, malignant astrocytomas, and glioblastomas, which comprises
- (a) administering a candidate drug to the transgenic animal of claim 7, and
 - (b) detecting at least one of the following:
 - (i) the suppression or prevention of expression of the protein coded for by the DNA construct contained by said animal;

- (ii) the increased degradation of the protein coded for by theDNA construct contained by said animal; or
- (iii) the reduction of frequency of at least one of neuritic sprouting, nerve cell death, degenerating neurons, neurofibrillary tangles, or irregular swollen neurites and axons in the host;

due to the drug candidate compared to a control animal which has not received the candidate drug.

- 15. The method of claim 14, wherein the DNA construct contained by said animal has Seq. ID No. 1.
- 16. The method of claim 14, wherein the protein coded for by the DNA construct contained by said animal is over-expressed in the brain of said animal.
- 17. An antisense oligonucleotide which is complementary to an NTP mRNA sequence corresponding to nucleotides 150-1139 of Seq. ID No. 1.
 - 18. The antisense oligonucleotide of claim 17, which is a 15 to 40-mer.
- 19. The antisense oligonucleotide of claim 17, wherein said antisense oligonucleotide is selected from the group consisting of Seq ID Nos. 9 to 11.
- 20. The antisense oligonucleotide of claim 17, which is deoxyribonucleic acid.
- 21. The antisense oligonucleotide of claim 17, which is a deoxyribonucleic acid phosphorothioate.

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- 22. The antisense oligonucleotide of claim 17, which is a derivative of a deoxyribonucleic acid or a deoxyribonucleic acid phosphorothioate.
- 23. A pharmaceutical composition comprising the antisense oligonucleotide of claim 17 and a pharmaceutically acceptable carrier.
- 24. A ribozyme comprising a target sequence which is complementary to an NTP mRNA sequence corresponding to nucleotides 150-1139 of Seq. ID No. 1.
- 25. A pharmaceutical composition comprising the ribozyme of claim 24 and a pharmaceutically acceptable carrier.
- 26. An oligodeoxynucleotide that forms triple stranded regions with the a region of AD7c-NTP coding nucleic acid and having the sequence 3'X5'-L-5'X3', wherein X comprises an AD7c-NTP nucleic acid sequence corresponding to nucleotides 150-1139 of Seq. ID No. 1, and wherein L represents an oligonucleotide linker or a bond.
- 27. A pharmaceutical composition comprising the oligodeoxynucleotide of claim 26 and a pharmaceutically acceptable carrier.
- 28. An oligodeoxynucleotide that forms triple stranded regions with the a region of AD7c-NTP coding nucleic acid and having the sequence 5'X3'-L-3'X5', wherein X comprises an AD7c-NTP nucleic acid sequence corresponding to nucleotides 150-1139 of Seq. ID No. 1, and wherein L represents an oligonucleotide linker or a bond.
- 29. A pharmaceutical composition comprising the oligodeoxynucleotide of claim 28 and a pharmaceutically acceptable carrier.

- 30. A ribonucleotide external guide nucleic acid molecule, comprising, a 10-mer nucleotide sequence corresponding to nucleotides 150-1139 of Seq. ID No. 1 fused to a 3'NCCA nucleotide sequence, wherein N is a purine.
- 31. The ribonucleotide external guide nucleic acid molecule of claim 30 which is selected from the group consisting of any one of Seq. ID Nos. 12 to 14.
- 32. A pharmaceutical composition comprising the ribonucleotide of claim 30 and a pharmaceutically acceptable carrier.
- 33. A method for to treat or prevent dementias of the Alzheimer's type of neuronal degeneration; or to treat or prevent neuroectodermal tumors, malignant astrocytomas, or glioblastomas, comprising administering to an animal in need thereof an antisense oligonucleotide, a ribozyme, a triple helix-forming oligonucleotide or an ribonucleotide external guide sequence of any one of claims 17, 24, 26, 28, or 30.
- 34. The method of claim 32, wherein said antisense oligonucleotide, ribozyme, triple helix-forming oligonucleotide or ribonucleotide external guide sequence is administered to said animal as part of a pharmaceutically acceptable carrier.

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